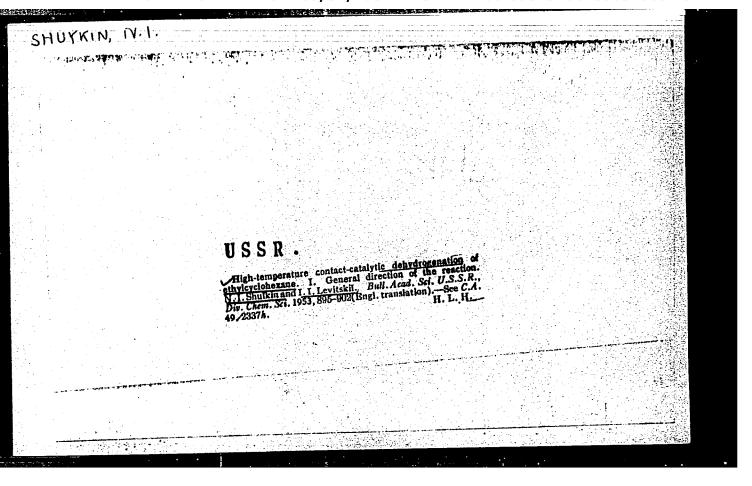
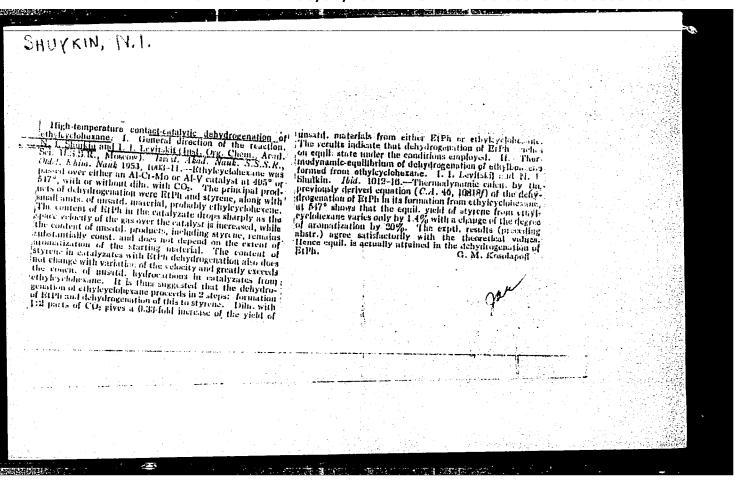
12

Chemical Abst. Vol. 48 No. 8 Apr. 25, 1954 Organic Chemistry Contact-catalytic transformations of literage of normal structure is pleasted temper notes and presente of hydrogen. N. I. Shurkin, N. C. Berdenkova, and S. S. Korikov (Inst. Org. Chem., Acad. St. U.S.S.R., Moscow). The st. Org. Chem., Acad. St. Org. Chem.,





- PETROV, A.D., SHUYKIN, N.I.
- USSR (600) 2.
- 4. Krentsel, B.A.
- "Chemical use of netroleum hydrocarbon gases." A. S. Nekrasov, B. A. Krentsel', Reviewed by A. D. Petrov, N. I. Shuykin. Sov kniga No. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- 1. POPOV, M. A., SHUYYIM, N. I., EARAMOVSKAYA, C. I.
- 2. USSE (600)
- 4. Ketones
- 7. Catalytic amination of ketones of different structures. Izv. AN SSSR. Otd. khim. nauk no. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

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Hydrogenating and dehydrogenating ability of nickel catalysts on various carriers. N. 1. Stonkon. Kh. M. Minachey and L. M. Feolanova (Level. Akad. Nauk. SSSR, Oldel. Khom., Nauk. 1953, No. 1, 96—99).—Catalysts containing 15—20%. Ni on Al₂O₃. ZuO, Cr₁O₃. MgO, and Fe₂O₃ are prepared by pptn. of the mixed nitrates with 30% NaOH, washing free of NO₄. drying at 120—130°, grinding and pelleting into rods 3—4 mm. diameter and 5—6 mm. length. The catalysts are reduced by electrolytic H₂ at 350—360°; vol. of catalyst was 50 ml., space velocity of cyclohexane (I) vapour 0.3 l. per l. of catalyst per hr., that of C₄H₄ vapour 0.06 l. per l. of catalyst per hr. Activity and stability of catalyst are estimated from the degree of conversion of C₄H₄ to I (hydrogenation) and of I to C₄H₄ (dehydrogenation): Ni-Al₂O₄ and Ni-ZnO are most active, Ni-Cr₂O₃ and Ni-MgO less active, and Ni-Fe₂O₃ practically useless for dehydrogenation; all samples (Fe₂O₃ excepted) hydrogenate C₄H₄ after only one passage at 160—170°. The stability of the catalysts to prolonged use is obtained by admitting first I and then C₄H₄ after initial activity had been determined. Ni-Al₂O₃ had unchanged activity after 80 hr. use: for Ni-ZnO and Ni-Cr₂O₃ the activity fell gradually to 18—20% of initial value. This stability is probably due to comparatively small conen. of finely dispersed Ni on the highly developed surface of the carrier. The active Ni distributed itself in such a way that its power of decomposing hydrocarbons is reduced. Special experiments show that CH₄ is not evolved from I at <350°, and that it is influenced by the type of carrier.

W. Manz. 11-5-54

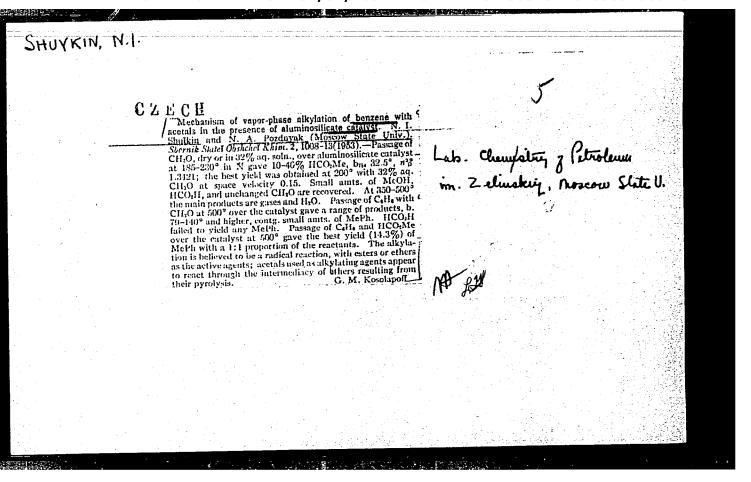
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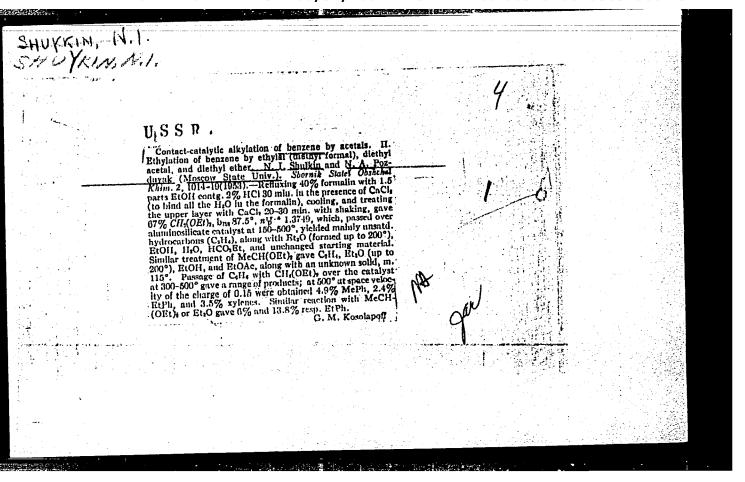
SHUYKIN, N.I.; BERDNIKOVA, N.G.; NOVIKOV, S.S.

Catalytic transformations of five- and six-membered cyclanes at high temperatures and hydrogen pressure. Izv. AN SSSR. Otd.khim.nauk. no.2:269-277 Mr-Ap '53. (MLRA 6:5)

1. Institut organicheskoy khimii Akademii nauk SSSR. (Cyclanes) (Catalysis)

Over a Pt-Al₂O₃ catalyst, cyclopentane at 460° and 20 atm of H pressure is trabsformed into n-pentane and isopentane, methylcyclopentane, n-hexanes and isohexanes, benzene, toluene, xylene, and polymethylbenzenes. Under the same conditions, but at a H pressure of 15 atm, methylcyclopentane is transformed the same conditions, but at a H pressure of 15 atm, methylcyclopentane is transformed into cyclopentane, n-pentane, 2-methylbutane, n-hexanes and isohexanes, benzene, toluene, xylene, and polymethylbenzenes; cyclohexane into benzene, methylcyclopentane, cyclopentane, hexanes, pentanes, toluene, xylenes, and polymethylbenzenes. The synthetic reactions, as distinguished from those of hydrogenolysis are due to the alkylation of hydrocarbon molecules (e.g., those of cyclopentane, benzene, toluene) with methylene radicals.





SHUYKIN, N. I.; YUSHKEVICH, M. V.; and BELIKOVA, G. S.

On Contact Decomposition of Furfuralazine, page 1112, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Laboratory of the Chemistry of Petroleum imeni N. D. Zelinskiy, Moscow State U

CIA-RDP86-00513R001550320002-3 "APPROVED FOR RELEASE: 08/31/2001

SHUYKIN, N.I.; LEVITSKIY, I.I.

Theoretical and experimental yield of styrene during catalytic dehydrogena-tion of ethyl benzene. Izv.AN SSSR Otd.khim.nauk no.3:403-408 My-Je '53.

1. Institut organicheskoy khimii Akademii nauk SSSR. (Styrene) (Dehydrogenation) (Benzene)

Hydrocarbons at an Activated Troshkovo Clay Catalyst. and unsatd hydrocarbons, that six-membered cyclenes are partially isomerized into five-membered rings, cyclenes is accompanied by alkylation. Showed that partially cracked with isomerization of some of the distribution of hydrogen with formation of arometic Shuykin, Ye. A. Timofeyeva, Inst Org Chem, Acad Sci III is subjected to dehydrocyclization with formaand that formation of aromatics from six-membered 270TL2 27072 Jul/Aug 53 I. Transformations of Cyclohexene (I), 4-Methyl-cyclohexene-1 (II), and Octene-1 (III), N. I. Studied transformations of I, II, and III at the catalyst investigated. Found that there is re-Aromatization, Isomerization "Investigation of Transformations of Individual tion of aromatics and that I, II, and III are Iz Ak Nauk SSSR OKnN, No 4, pp 678-688 USSR/Chemistry - Hydrocarbons, products of decompn of III. USSR 11

SHUYKIN, N.I.

USSR/ Scientists - Chemistry

Card 1/1

Pub. 40 - 1/22

Authors

Nesmeyanov, A. N.; Topchiev, A. V.; Kazanskiy, B. A.; and Shuykin, N. I.

Title

s In memory of Academician N. D. Zelinskiy

Periodical

12v. AN SSSR. Otd. khim. nauk 5, 765-774, Sep-Oct 1953

Abstract

Eulogy by the president and staff members of the Academy of Sciences USSR honoring the death of academician Nikolay Dmitrievich Zelinskiy, famous Russian chemist who died on July 31, 1953 at the age of 93. Illustration.

Institution

n : ••

Submitted

: ...

SHUYKIN, N.T.

DESR/Chemistry - Catalytic conversion

Card 1/1

Pub. 40 - 15/22

Authors

8 Shuykin, N. I.; Berdnikova, N. G.; and Novikov, S. S.

Title

Contact-catalytic conversion of normal structure alkanes at increased temperature and hydrogen pressure

Periodical

1 Izv. AN SSSR. Otd. khim. nauk 5, 879-888, Sep-Oct 1953

Abstract

8 An investigation was conducted to determine the contact-catalytic conversion of n-hexane, n-heptane and n-octane in the presence of platinised Al₂0₃ at 460° and 15-20 atm hydrogen pressures. Dehydrocyclisation and isomerization of alkanes, methylation and hydrogenolysis of the alkanes and benzene homologues, formed as result of catalytic dehydro-cyclization, was observed in all instances. The role of methylene decomposition of alkanes and cyclanes, in the reaction of formation of isoalkanes and higher benzene homologues, is explained. Two USSR refer ences (1937 and 1953). Tables; graphs.

Institution : Academy of Sciences USSR, Institute of Organic Chemistry

Submitted

December 19, 1952

SHUYKIN, II.	I.	1						
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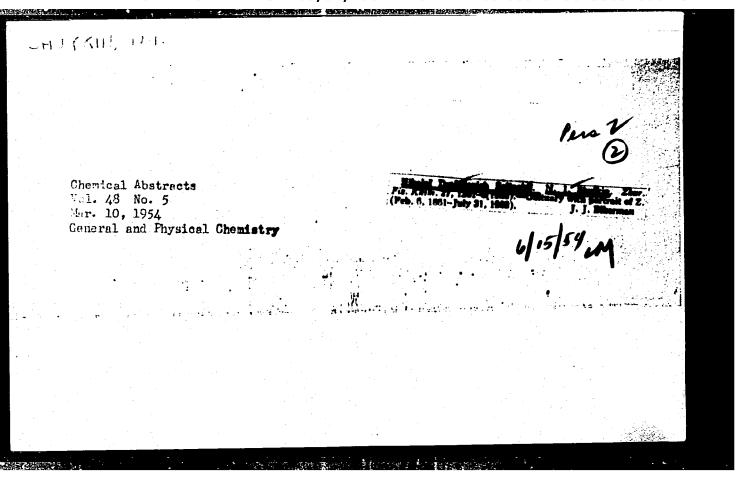
NEKRABOVA, V. A.; BHUYKIN, N. I.

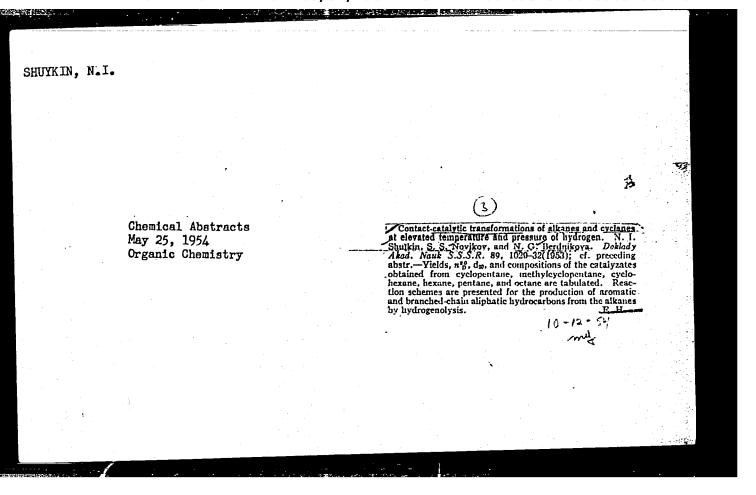
Chlorination

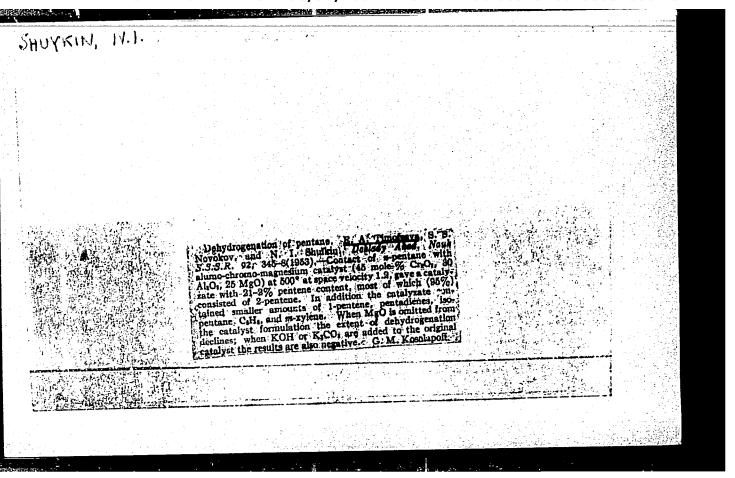
Chlorination of alkanes. Usp. khim. 22, No. 2, 1953.

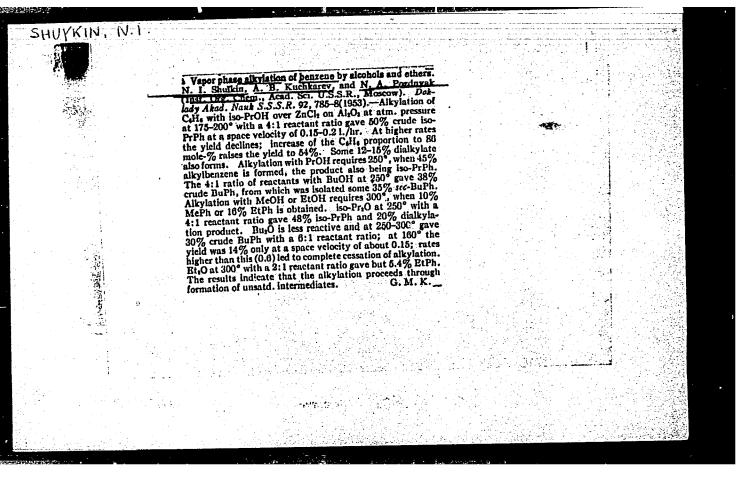
June 1953. Unclassified.

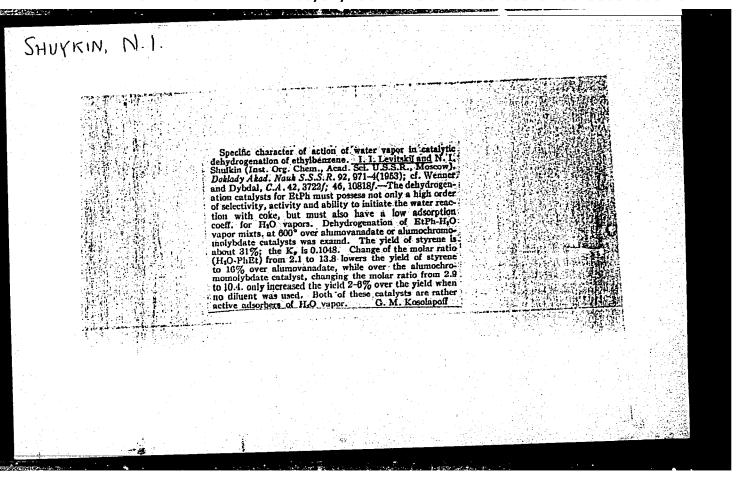
9. Monthly List of Russian Accessions, Library of Congress,











NEKRASOVA, V.A.; SHUYKIN, N.I.

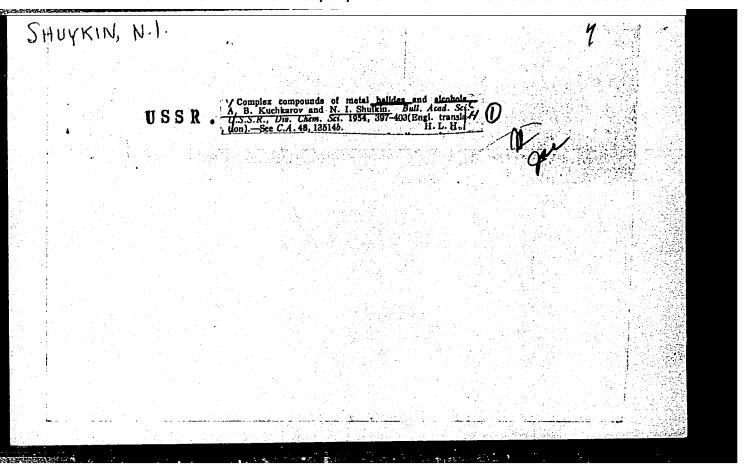
Thermal chlorination of alkanes. Soob.o nauch.rab.chl.VKHO
(MIRA 10:10)

(Chlorination) (Hexane) (Heptane)

MEKRASOVA, V.A., SHUYKIN, N.1.

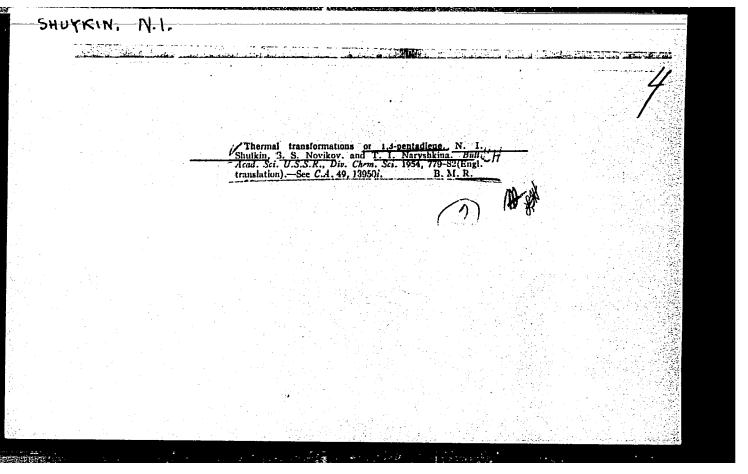
Thermal chlorination of alkanes. Report No.4: Preparation of l-chloroctane, 1-chlorononane, and 1-chlorodecane. Soob.o nauch. rab.chl.VKHO no.1:15-17 '54. (MIRA 10:10) (Octane) (Nonane) (Decane)

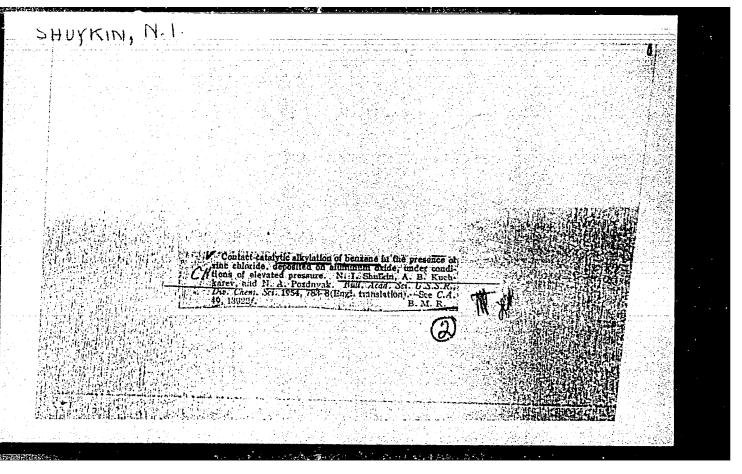
HUYKII, N. I.					
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	Hydro- and dehydrogenation of hydroence of ruthenium and reading catalys	carbons in the pres-	, ,		
	Rozhdestvenskava (N. D. Zelinski)	Shulkin, and I. D.			
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	catalysts was example in hydrogenation	al ₂ O ₃ , and 1% Rh-C			
	tene, and 1-octene. Rh entalvate were an	, 1-methylcyclopen-			
	tion even at 300°, while at 340-60° the of benzene; Ru was less active. In hyd both types were close to Rt in activities	rogenotion secretions			
	both types were close to Pt in activity. tion of cyclohexane the activation energy cal./mole, with K ₀ 1.44 × 10°, while R				
	that Ru-C gave only one weak band	to catalysts showed			
	only one weak hand for $d = 2.12$, 1.91, and 1.	37 A. Rh-C gave;			
	2.11, 1.92, and 1.38 A. In all cases the indicating high order of dispersion.	na banda wasa wida			•
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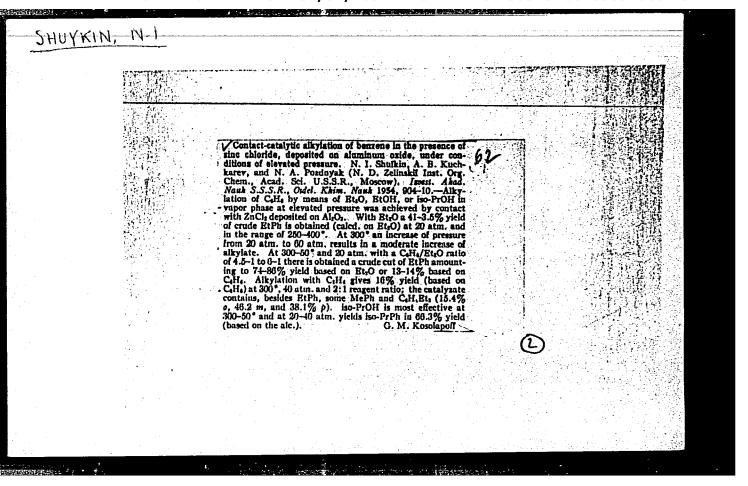


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SHUYKIN, N.I.; NOVIKOV, S.S.; NARYSHKINA, T.I.

Thermal conversions of 1,3-pentadiene. Izv. AN SSSR Otd.khim. nauk no.5:898-903 S-0 '54. (MLRA 8:3)

1. Institut organicheskoy khimii im.N.D.Zelinskogo Akademii nauk SSSR.

(Piperylene)

SHUYKIN, N.I.; KUCHKAREV, A.B.; POZDNYAK, N.A.

Contact-catalytic alkylation of benzene in presence of zinc chloride deposited on aluminum oxide, under increased pressure. Izv.AN SSR Otd.khim. nauk no.5:904-910 S-0 54. (MLRA 8:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR.

(Benzene) (Alkylation)

SHUYKIN, N.I.

USSR/Chemistry - Catalytic conversion

Card 1/2

Pub. 40 - 17/27

Authors

Minachev, Kh. M.; Shuykin, N. I.; Feofanova, L. M.; Treshchova, E. G. and

Title Yudkina, T. P.

Conversions of n-heptane in presence of metals of the Pd group at high

temperatures and hydrogen pressures

Periodical :

Izv. AN SSSR. Otd. khim. nauk 6, 1067-1074, Nov-Dec 1954

Abstract :

The conversions of n-heptane over Ru, Rh, Pd and Pt contacts deposited on silica gel was investigated at hydrogen pressures of 20 at, and temperatures of 460°. It was found that the n-heptane, subjected to above described conditions, experiences several deep conversions with a part of

it undergoing complete dehydrocyclization.

Institution:

Acad. of Sc.; USSR, The N. D. Zelinskiy Institute of Org. Chemistry

Submitted

February 17, 1954

Priodical: Izv. AN SSSR. Otd. khim. nauk 6, 1067-1074, Nov-Dec 1954

Card 2/2 Pub. 40 - 17/27

Abstract: Benzene and xylenes (in addition to toluene) paraffinic part of the

catalysate revealed hydrocarbons of the iso-structure (C₅-C₇). The catalysis products of n-heptane over Ru-SiO₂ showed considerable amounts of methylcyclohexane. Eleven references: 8 USSR, 2 English

and 1 German (1903-1953). Tables; graph; drawing.

SHOUKIN, N.I.
USSR/ Chemistry - Catalytic conversion

Card 1/2

Pub. 40 - 18/27

Authors

Timofeyeva, E. A., and Shuykin, N. I.

Title

Conversions of individual hydrocarbons in contact with natural aluminum

silicates. Part 2

Periodical

Izv. AN SSSR. Otd. khim. nauk 6, 1075-1081, Nov-Dec 1954

Abstract

Studies were made to determine the conversions of cyclohexane, methylcyclohexane and toluene over activated Troshkovsk clay (Al2Si03) at 450 and 500°. It is shown that the degree of cyclane conversion increases with the increase in the molecular weight. Benzene and its homologues, as well as methylcyclopetane and unsaturated hydrocarbons were found

among the cyclohexane conversion products.

Institution :

Acac. of Sc., USSR, The N. D. Relinskiy Institute of Org. Chemistry

Submitted

January 22, 1954

CIA-RDP86-00513R001550320002-3" APPROVED FOR RELEASE: 08/31/2001

Periodical:

Izv. AN SSOR. Otd. khim. nauk 6, 1075-1081, Nov-Dec 1954

Card 2/2

Pub. 40 - 18/27

Abstract

The conversion of methylcyclohexane (under identical conditions), yielded toluene, m- and p-xylenes and other benzene homologues, as well as dimethylcyclopentane, and alkanes, which apparently are the ring splitting products. Ten references: 7 USSR, 2 USA and 1 English (1940-1953). Tables; graphs.

omera renegação USSR/Chemistry - Plastics

FD-1206

Card 1/1

Pub. 129-9/19

Author

: Shuykin, W. I.; Tulupov, V. A.

Title

Tana na laikapaten fatika (1997) : The behavior of the geometric isomers of piperylene to ultraviolet

illumination

Periodical

: Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No. 5., 91-95,

Aug 1954

Abstract

: Established the fact that the cis- and trans-isomers of piperylene can be converted from one to the other under the action of ultraviolet light. Also established the approximate composition of the equilibrium mixture. Demonstrated the effect of powdered silver in

this conversion. Fifteen references (two USSR).

Institution : Chair of Petroleum Chemistry

Submitted

: March 25, 1954

5/16/KIN, N. 1.

AID P - 1121

Subject : USSR/Chemistry

Card 1/1 Pub. 119 - 4/5

Authors : Minachev, Kh. M. and Shuikin, N. I. (Moscow)

Title : Metals of group VIII as catalysts in conversion of

hydrocarbons

Periodical: Usp. khim., 23, no. 6, 737-765, 1954

Abstract : Preparation of catalysts, effect of various factors on

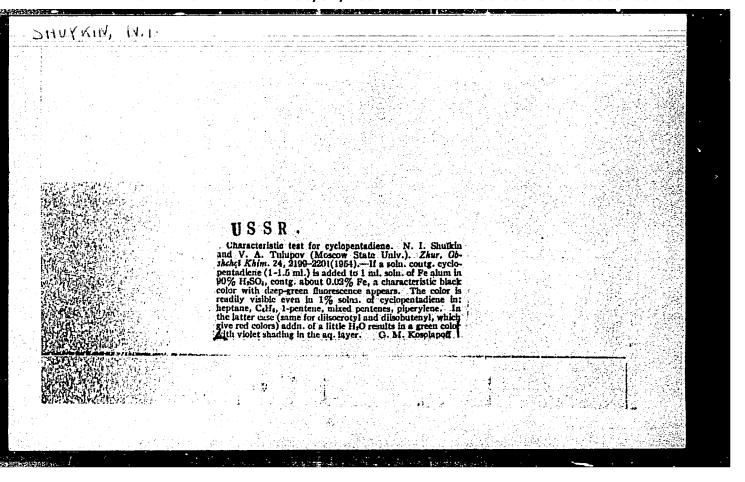
their activity, and catalytic conversion of various hydrocarbons based on the work of Zelinskiy and his followers

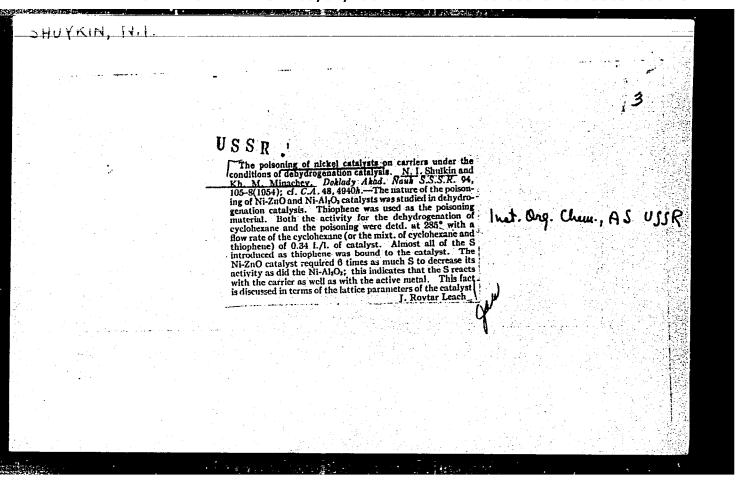
are reviewed. Six tables, 1 diagram, 196 references

(157 Russian: 1911-1953).

Institution: None

Submitted : No date





SHUYKIN, N. I.

USSR/Chemistry

Card 1/1

Authors

Shuykin, N. I., Member-Correspondent of the Acad. of Scs. of the USSR, Minchev, Kh. M; Tulupova, E. D., and Egorov, Yu. P.

Title

: Transformations of ethylcyclopentane in the presence of Ru- and Pd-catalysts under the pressure of hydrogen in a flowing system.

Periodical

: Dokl AN SSSR 95, 6, 1211 - 1214, 21 Apr 1954

Abstract

s The article gives the specific characteristics of metallic catalysts in relation to their chemical properties and the special features of carrying agents, especially, render the pressure of hydrogen in flowing systems. Tables, a diagram.

Institution

: N. D. Zelinskiy's Institute of Organic Chem. of the Acad. of Scs. of

the USSR

Submitted

: 17 Feb 1954

Evaluation B-85325, 14 Jun 55

SHUYYIN, N. I.

USSR/Chemistry - Organic Syntheses

Card 1/1

• Pub. 22 - 23/43

Authors

: Nekrasova, V. A., and Shuykin, N. I., Memb. Corresp. of Acad. of Sc.

Title

: Chlorination of n-undecane

Periodical

! Dok. AN SSSR 97/5, 843-846, August 11, 1954

Abstract

The reaction of vapor-phase chlorination of n-undecane, was investigated in the presence of nitrogen dicxide. A narrow ligroin fraction of straight run Crimean petroleum, was used as the basic product for the derivation of chloro-derivatives. The results indicate that the application of nitrogen dioxide as a hydrocarbon chlorination initiator makes it possible to reduce the reaction temperature and to obtain large yields of mono-chloro-substituted hydrocarbons. Ten references:

5-USSR; 3-USA and 2-English (1930-1954). Tables; drawing.

Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Submitted

: June 3, 1954

CIA-RDP86-00513R001550320002-3 "APPROVED FOR RELEASE: 08/31/2001

USSR/Chemistry - Conversion processes

Pub. 22 - 29/56 Card 1/1

Minachev Kh. M., Memb. Corresp. of Acad. of Sc. USSR.; Shuykin, N. I.; Authors

Tulupova, E. D.; and Yegorov, Yu. P.

Conversions of ethylcyclopentane in the presence of Rh and Pt-catalysts under Title

hydrogen pressure in a flowing system

Dok. AN SSSR 99/5, 777-780, Dec 11, 1954 Periodical :

The experimental data obtained during the catalysis of ethylcyclopentane over Rh - Al₂O₃ Pt - Al₂O₃ and Pt - SiO₂ under conditions as described in the title, are presented. The specific characteristics of Rh deposited on Abstract Al203 and Pt on SiO2. during ethylcyclopentane conversions, are described. The catalyzates obtained, after determining their specific weight, index of refraction and aromatic hydrocarbon content were subjected to rectification for the purpose of separating the hydrocarbons. Physico-chemical analysis of

ethylcyclopentane cat-conversion products showed that this hydrocarbon isomer izes when in contact with Rh - Al203 with the expansion into a six-membered cycle and finally dehydrogenates into toluene. Five USSR references (1934-

1954). Tables; graph.

Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry Institution:

July 20, 1954 Submitted

"Transformer to a of Hydrogen one of Caide-Mate! Catelyans Under Atevated temperatures and Hydrogen Pressures," a paper presented at the but Mortd Potrateum for Jours, Nove, 6-15 dark 35.

SHUYKIN, N.I.

[Transformations of hydrocarbons on oxide-metal catalysts under elevated temperatures and hydrogen pressures].

Prevrashcheniia uglevodorodov na okisnometallichemikh katalizatorakh pri provyshennykh temperaturakh i davleniiakh vodoroda. Moskva, Izd-vo Akademii nauk SSSR, 1955. 47 p. (MIRA 8:7)

ZELINSKIY, Nikolay Dmitriyevich, 1861-1953 [deceased] KAZANSKIY, B.A., akademik; BALANDIN, A.A., akademik; KOCHESHKOV, K.A.; SHUYKIN, N.I.; KAVERZNEVA, Ye.D, doktor khimicheskikh nauk; LEVINA, R.Ya., doktor khimicheskikh nauk; PLATE, A.F., doktor khimicheskikh nauk; RUBINSHTEYN, A.H., doktor khimicheskikh nauk; YUR'YEV, Yu.K., doktor khimicheskikh nauk; KISELEVA, A.A., tekhnicheskiy redaktor.

1177

[Collected works] Sobranie trudov, Moskva, Izd-vo Akademii nauk SSSR. Vol. 2. 1955. 743 p. (MLRA 8:11)

1. Chlen-korrespondent AN SSSR(for Kocheshkov and Shuykin)
(Hydrocarbons) (Petroleum)

and the same of the state of th

NAMETKIN, Sergey Semenovich, 1876-1950; TOPCHIYEV, A.V. akademik, redaktor; SHUYKIN, N.I., redaktor; BRUSOV, I.I., redaktor; POLYAKOVA, T.V., teknincheskiy redaktor.

[Collected works] Sobranie trudov, Moskva, Isd-vo Akademii nauk SSSR Vol. 3. 1955. 799 p. (MLRAS:11)

1. Chlen-korrespondent AN SSSR, (for Shuykin). (Petroleum-Refining)

ZELINSKIY, N.D.; KAZANSKIY, B.A., akademik; BALANDIN, A.A., akademik; KOCHESHKOV, K.A.; SHUYKIN, N.I.: KAVERZNEVA, Ye.D., doktor khimicheskikh nauk; LEVINA, R.T., doktor; khimicheskikh nauk; PLATE, A.F.; doktor khimicheskikh nauk; RUBINSHTEYN, A.H. doktor khimicheskikh nauk; YUR'YEV, Yu.K., doktor khimicheskikh nauk.

[Collected works] Sobranie trudov. Moskva, Izd-vo Akad.nauk SSSR. Vol. 3 1955 719 p. (MLRA 8:8)

1. Chlen-korrespondenty AN SSSR (for Kocheshkov, Shuykin),

NAMETKIN, Sergey Semenovich, 1876-1950; TOPCHIYEV, A.V., akademik, .:edaktor; SHUYKIN, N.I., redaktor; BHUSOV, I.I., redaktor; POLYAKOVA, T.V., tekhnicheskiy redaktor.

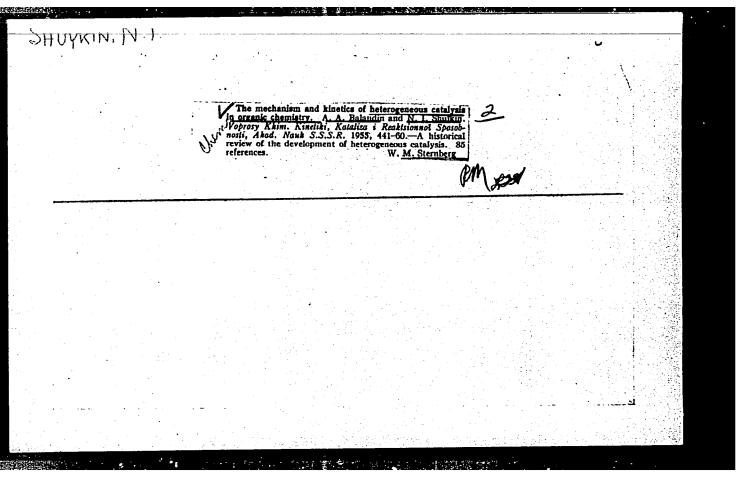
[Petroleum chemistry] Khimiia nefti. Moskva, Isd-vo Akademii nauk SSSR, 1955. 799 p. (MLRA 8:12)

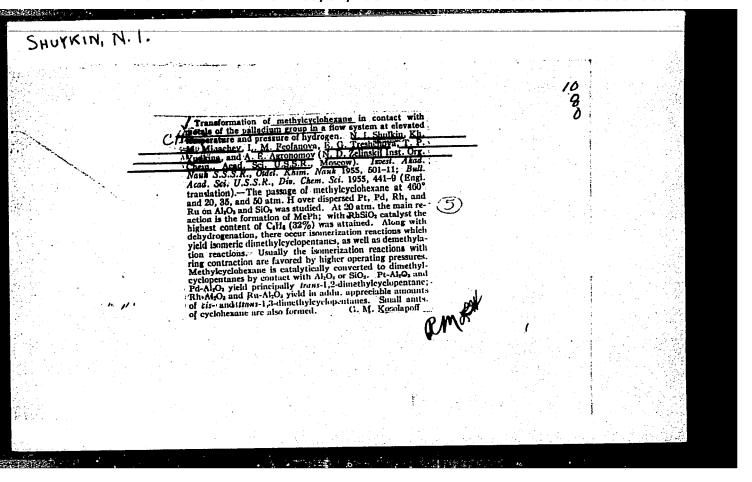
1. Chlen-korrespondent AN SSSR (for Shuykin).
(Petreleum)

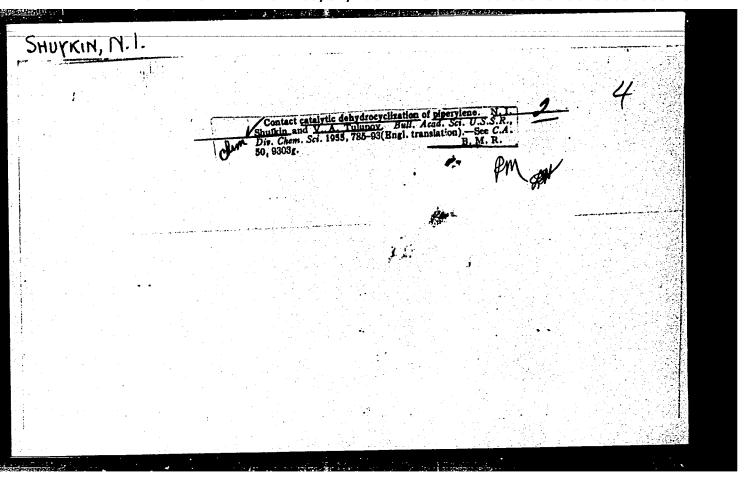
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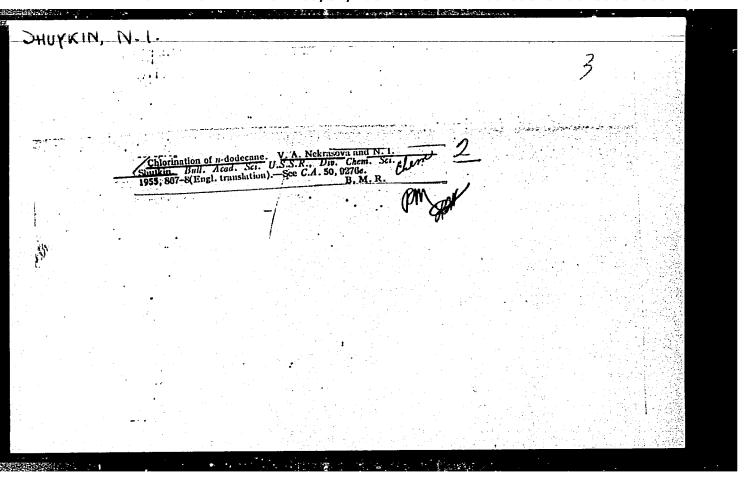
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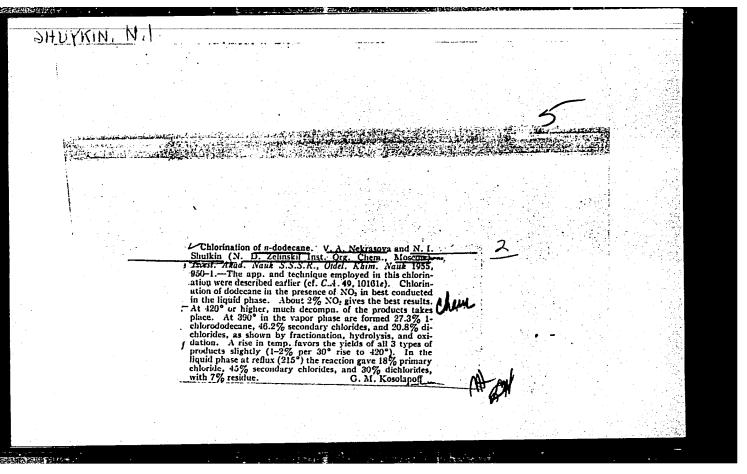


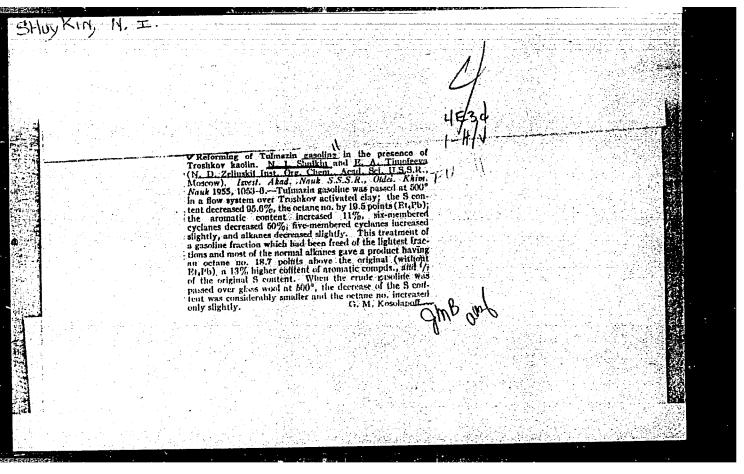






ENYOUS SEC.	AND THE PERSON OF THE PERSON O	1. 18 T.
SHUYKIN, N.I.		
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	- House - Indian - House - Ho	00
	Contact catalytic dehydrocyclization of pingrylone. N. I. Shutkin and V. A. Tuhunav (M. V. Londansov State. 2. Univ. Moscow). Invest. Akad. Nank S.S.S.R. Ordel.	
	Knins, Nank 1955, 8an-41, c.d. 44, 8825h—Dehydro- 102h; Keinedy and Hetzel, C.d. 44, 8825h—Dehydro- cyclization of piperylene into cyclopentadicue was examd, cyclization of piperylene into cyclopentadicue was examd.	
	Al ₂ O ₂ ZuO, ZuStO ₄ , MgStO ₄ dispersed forms to 1 than and Pt on SiO ₄ . The cyclization reaction is definitely catalytic in nature. The yield of cyclopentadiene does not depend on the execution of cisatrans form content of the	
	nitial piperylene, but does depend on the pressure, being initial piperylene, but does depend on the pressure, being lowest at atm. pressure (0.4% at 760 mm.) and highest at 10 mm; (0.7%). The rate consts; for the dehydrocyclization are: 8.03 × 10 ⁻⁸ mole/cm. at 550° and 5.41 × 10 ⁻⁴ mole/cm; at 800°. The activation energy is estd. at 59105.	
	cal/mole. The reaction mechanism is discussed and it is suggested that the cyclization is initiated by a metal-compile complex of the radical type, the odd electron being	
	G. M. Kasalapoff	
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SHUYKIN, N. I.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 40 - 15/26

Authors

Popov, M. A., and Shuykin, N. I.

Title

Catalytic amination of alcohols

Periodical

* Izv. AN SSSR. Otd. khim. nauk 2, 308 - 313, Mar-Apr 1955

Abstract

Experiments were conducted to determine whether the conversion of alcohols into amines is followed by an intermediate phase of formation of aldehydes, ketones, ethers or unstable alcohol-catalyst compounds. It was established that amines are formed during catalytic amination of alcohols through direct separation of water elements from the alcohol and ammonia molecules or directly from the amine or alcohol during their collision on the surface of the catalyst. The most favorable conditions for the amination of alcohols were found to be in the presence of platinum coated silica gel or active carbon as catalysts. Twenty-six references: 11 Russian and USSR, 10 German, 2 USA and 3 French (1880-1953). Tables.

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted : March 16, 1954

USSR/ Chemistry - Organic Chemistry

Card 1/1

Pub. 40 - 16/26

Authors

: Shuykin, N. I., and Timofeyeva, Ye. A.

Title

Conversions of individual hydrocarbons during contact with natural aluminosilicates. Part 3.

Periodical

1 Izv. AN SSSR. Otd. khim. nauk 2, 314 - 322, Mar-Apr 1955

Abstract

GEORGE CO

The conversion of two representatives of five-membered cyclanes - cyclopentane and ethylcyclopentane as well as ethylcyclohexane and ethyl benzene - was investigated at 500° with activated Torshkov clay in the role of contact. It was established that the depth of cyclene conversion increases with the increase in their molecular weight. A study of the characteristics of ethylcyclohexane and ethyl benzene showed that the catalytic reaction leading to the synthesis of alkyl substitutes has a much higher rate than the dehydrogenation reaction of the basic ethylcyclohexane. Three USGR references: (1951-1954). Tables; graphs.

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted : April 14, 1955

SHUYKIN, N.I.; HINACHEV, Kh.M.; FEOFANOVA, L.M.; TRESHCHOVA, Ye.G.; YUDKINA, T.P.; AGRONOMOV, A.Ye.

Conversions of methylcyclohexane in contact with metals of the palladium group in flow and at increased temperature and increased hydrogen pressure. Izv.AN SSSR. Otd.khim.nauk no.3: 501-511 My-Je '55. (MIRA 8:9)

1. Institut organicheskoy khimii im. H.D.Zelinskogo Akademii nauk SSSR.

(Cyclohexane) (Catalysts, Platinum metals)

SHUYKIN, N.I.; TIMOFEYEVA, Ye.A.; SLADKIKH, V.M.

ESPECIMENT "

Contact-catalytic conversions of 71-pentane in presence of a chromium aluminum magnesium catalyst. Isv.AN SSSR. Otd.khim. nauk no.3:567-569 My-Je '55. (MLRA 8:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR.

(Pentane)

SHUYKIN, N.I.; TULUPOV, V.A.

Contact-catalytic dehydrocyclisation of piperylene. Isv.AN SSSR.Otd. khim.nauk no.5:869-879 S-0 '55. (MLRA 9:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonoseva. (Piperylene)

NEKRASOVA, V.A.; SHUYKIN, N.I.

Chlorination of n-dodecane. Izv.AN SSSR. Otd.khim.nauk no.5:950-951 S-0 '55. (MIRA 9:1)

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1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR.

(Dedecane)

SHUYKIN, N.I.; DOBRYNINA, T.P.; TIMOFEYEVA, Ye.A.; YEGOROV, Yu.P.

Catalytic dehydregenation of isopentane. Isv.AN SSSR,Otd.khim. nauk no.5:952-953 S-0 155. (MLRA 9:1)

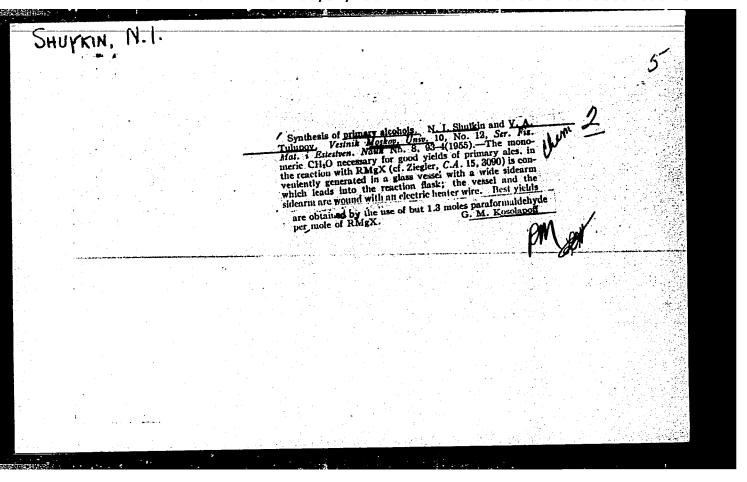
1. Institut erganicheskey khimii imeni M.D.Zelinskege Akademii nauk SSSR. (Butane) (Dehydregenation)

SHUYKIN, N.I.

Conversions of hydrocarbons on metal catalysts at increased temperatures and hydrogen pressures. Uch.zap. AGU no.8:23-36:55.

(MLRA 9:11)

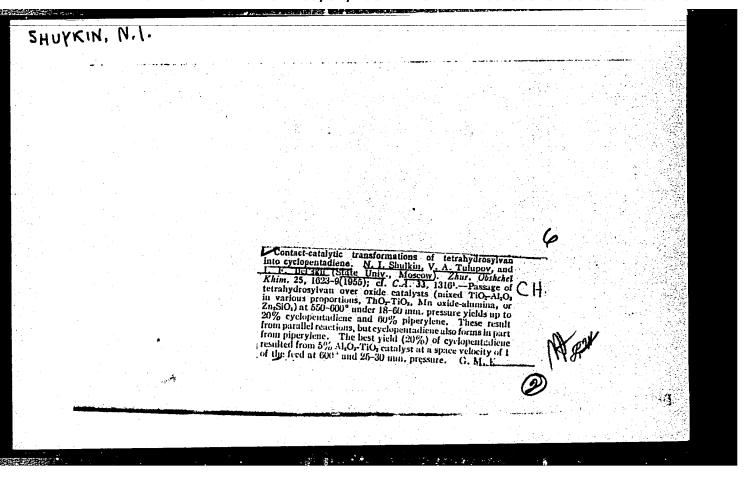
(Hydrocarbons) (Catalysts)



SHUYKIN, N.I.; TULUPOV, V.A.; BEL'SKIY, I.F.

On the hydration of the furan ring. Zhur.ob.khim.25 no.6:1175-1178 Je'55. (MIRA 8:12)

1. Moskovskiy Gosudarstvennyy universitet (Furan) (Hydration)



SHUYKIN, N.I.; TIMOFEYEVA, Ye.A.

Referring of Tuimaza gaseline in centact with Treshkev kaolin. Izv.AN SSSR Otd.khim.mauk 86 ne.6:1056 My '55. (MIRA 9:4)

1. Institut organicheskey khimii imeni N.D. Zelinskege Akademii nauk SSSR.

(Tuimasy--Gasoline) (Kaolin)

Shoyking N. E. USSR/Chemistry - Catalysts

Card 1/2

Pub. 22 - 23/52

Authors

Freydlin, L. Kh.; Tulupova, E. D.; Borunova, N. V.; Minachev, Kh. M.;

and Shuykin, N. E. Memb. Corresp. of Acad. of Sc. USSR

Title

Selective increase of Ni-Al₂O₃ catalyst stability by compressing

Periodical

Dolc. AN SSSR, 100/2, 283-286, Jan 11, 1955

Abstract

Investigation was conducted to determine the effect of two different organic substances on the stability of Ni-Al₂O₃ catalysts prior and after compressing the catalyst. The relative stability of the compressed and uncompressed catalysts was established by the change in their activity during dehydrogenation reactions of cyclohexane and narrow Maykop gasoline fractions.

Institution:

Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Submitted

July 13, 1954

Periodical:

Dok. AN SSSR, 100/2, 283-286, Jan 11, 1955

Card 2/2

Pub. 22 - 23/52

Abstract

It was found that compressing will increase the stability of an Ni-Al₂O₃ catalyst during the dehydrogenation of hydro-aromatic hydrocarbons in the presence of a poison-five-membered cyclene. In the case of poisoning with thiophene, which occurs according to a different mechanism, compressing shows no effect on the catalyst stability. Six USSR references (1926-1953). Graphs.

SHUYKIN, N.I.

USSR/ Chemistry - Hydrocarbon conversion

Card 1/1

Pub. 22 - 32/60

Authors

Shuykin, N. I., Memb. Corresp. of Acad. of Sc., USSR.; and Tulupov. V. A.

Title

The kinetics of piperylene conversion into cyclopentadiene

Periodical

Dok. AN SSSR 100/4, 731-733, Feb 1, 1955

Abstract

The kinetics of C5H8 conversion into C5H6 was investigated to determine the nature of the C5H8 cyclization process. It was established that the yield of C5H6 at temperatures of 600° and pressures of 30 mm depends upon the presence and nature of the catalyst and that the cyclization process is quite complicated leading to the formation of pentenes, pentanes and gases (in addition to C5H6), which are formed as result of cracking of the basic C5H8 and probably also as result of secondary conversion of the pentanes and pentenes. The conversion reaction was found to be catalytic and the activation energy was estimated at 59105 cal/mol. Three references: 2 USSR and 1 English (1948 and 1950). Table.

Institution:

The M. V. Lomonosov State University, Moscow

Submitted

September 3, 1954

SHUYKIN, N. I.

USSR/ Chemistry - Dehydrogenation catalysts

Card 1/1

Pub. 22 - 28/51

Authors

Shuykin, M. I., Memb. Corresp. of Acad. of Sc., USSR.; Minachev, Kh. M.; and Hyashentseva, M. A.

Title

Active and at ble Pd catalyst for dehydrogenation of six-membered cyclanes

Periodical

Dok. AN SSSR 101/1, 107-109, Mar 1, 1955

Abstract

The activity and stability of a newly produced catalyst (containing only 0.5% Pd) were tested on a benzene fraction dehydrogenated at 450-460. 20 atm of hydrogen pressure and molar hydrogen - hydrocarbon ratio of 5:1. The throughput ratio was 1 liter/liter of the catalyst per hr. The results obtained are briefly described. The sulfur content of the benzene fraction showed no effect of the activity of the catalyst. Ten Russian and USSR references (1911-1954). Graph.

161

Ten nabelan and boar leferences (1911-17)4/1 Graphs

Institution :

Acad. of Sc., USSR, The N. D. Zelinskiy Institute of Org. Chem.

Submitted

October 4, 1954

SHWYKIN, N.I.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 21/51

Authors

Popov, M. A., and Shuykin, N. I., Memb, Corresp. of Acad. of Sc. USSR

Title

: Catalytic synthesis of cyclopentylamine

Periodical

Dok. AN SSSR 101/2, 273-276, Mar 11, 1955

Abstract

The synthesis of cyclopentylamine (high yield) through reduction amination of various ketones in vaporous phase in the presence of a suitable catalyst is described. In view of the fact that the catalyst in this case was required to produce reducing and amination effects it was decided to use nickel on pumice or nickel on active Al₂O₃ in the role of catalysts. The choice of the above-mentioned catalysts was found to bring successful results. Five references: 2 USSR, 2 German and 1 French (1885-1953). Table.

Institution:

Acad. of Sc. USSR, The N. D. Zelinskiy Inst. of Org. Chem.

Submitted

October 4, 1954

TOPCHIYEV, A.V.; ZAVGORODNIY, S.V.; PAUSHKIN, Ya.M.; SHUYKIN, N.I., redaktor; STRUCHKOV, Yu.T., redaktor; ZELENKOVA, Ye.V., tekhnicheskiy redaktor

[Boron fluoride and its compounds as catalyzers in organic chemistry] Ftoristyi bor i ego soedineniia kak katalizatory v organicheskoi khimii. Moskva, Izd-vo Akademii nauk SSSR, 1956. (MIRA 9:4)

1. Chlen-korrespondent AN SSSE (for Shuykin)
(Boron fluoride)

SHUYKIN, IV. 1.

USSR/Chemistry - Conversion processes

Pub. 40 -10/25 Card 1/2

Authors

: Shuykin, N. I.; Berdnikova, N. G.; and Yegorov, Yu. P.

Conversions of n-propyl-and isopropylbenzene over a nickel-alumina catalyst Title

at increased temperatures and hydrogen pressures

: Izv. AN SSSR. Otd. khim. nauk 1, 43-49, Jan 1956 Periodical

An investigation was made to determine the catalytic conversions of n-propyl-Abstract

and isopropylbenzenes over a nickel-alumina catalyst at various temperatures and hydrogen pressures. Results showed that approximately 98% of the basic hydrocarbons experience a thorough conversion at a 4650 temperature. Hydrogenolysis of the side chain with the formation of dealkylation products was

found to be the basic reaction in the conversion of isomeric propyl benzenes.

Institution: Acad. of Sc., USSR, Inst. of Organ. Chem. im. N. D. Zelinskiy

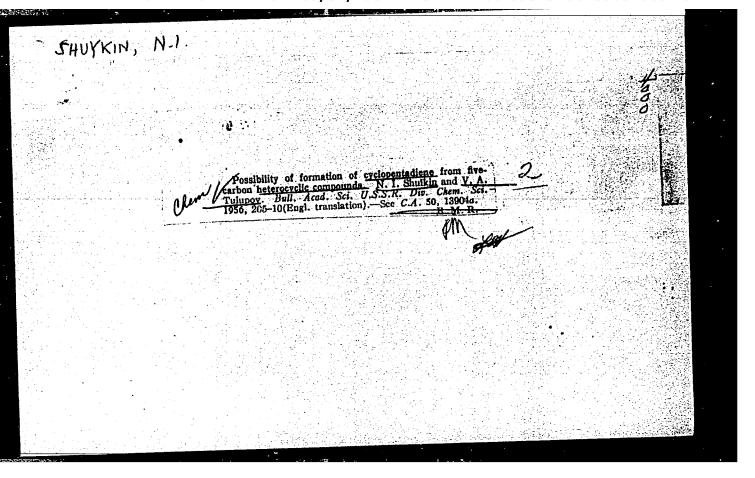
: March 12, 1955 Submitted

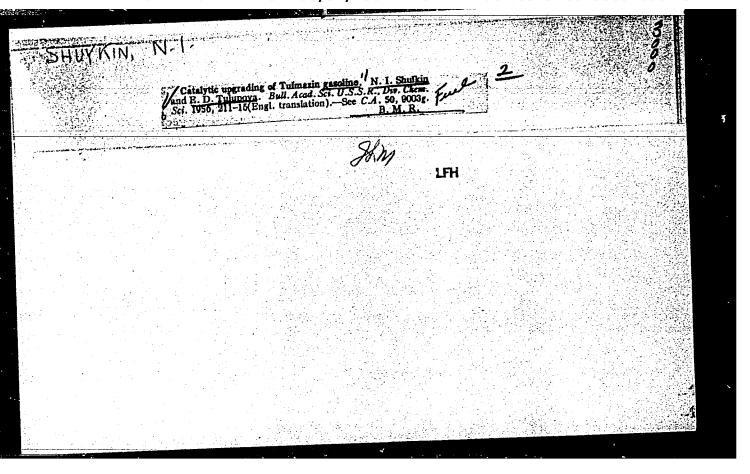
Card 2/2 Pub. 40 - 10/25

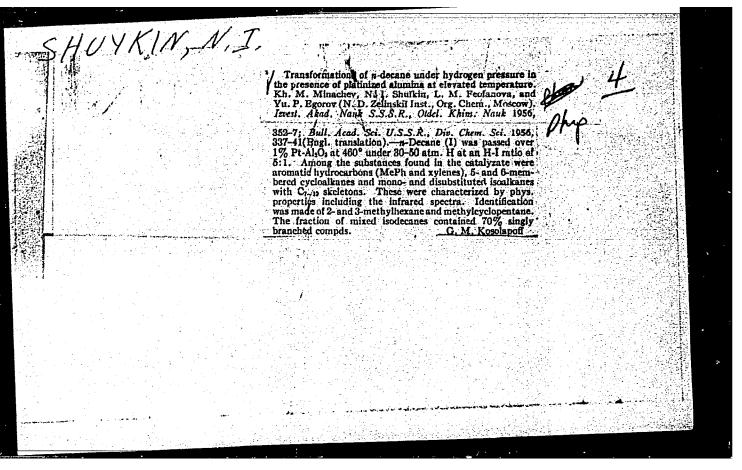
Periodical: Izv. AN SSSR. Otd. khim. nauk 1, 43-49, Jan 1956

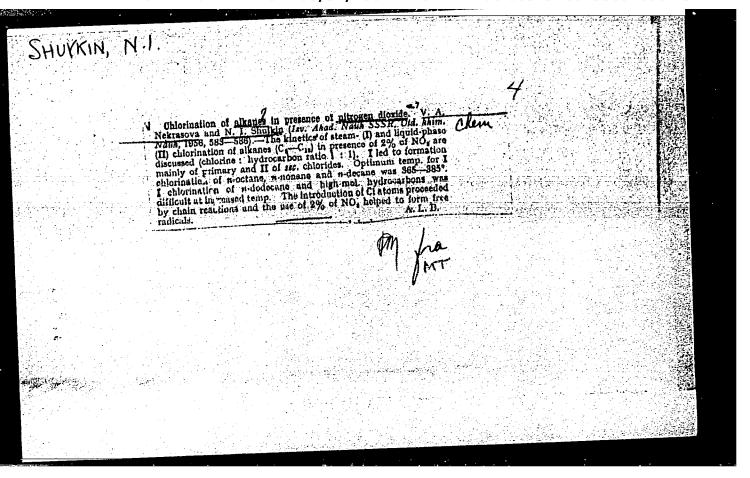
Abstract

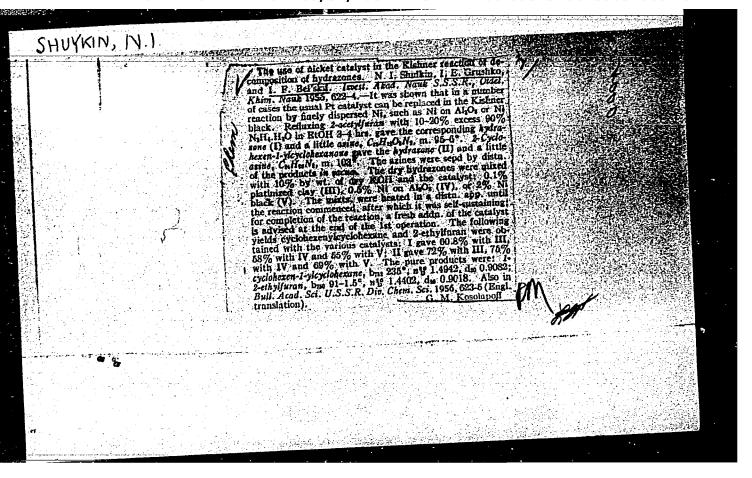
The hydrogenation of the benzene nucleus, contraction of the six-membered cycle into a 5-membered one follow parallel with the hydrogenolysis. The formation of methylation products by the methylene radicals due to the decomposition of the catalyst was observed. Twelve references: 9 USSR, 1 Germ. and 2 Eng. (1903-1955). Tables

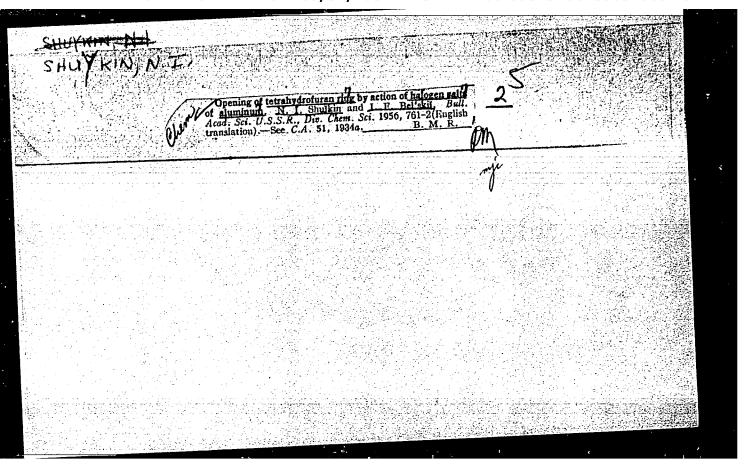


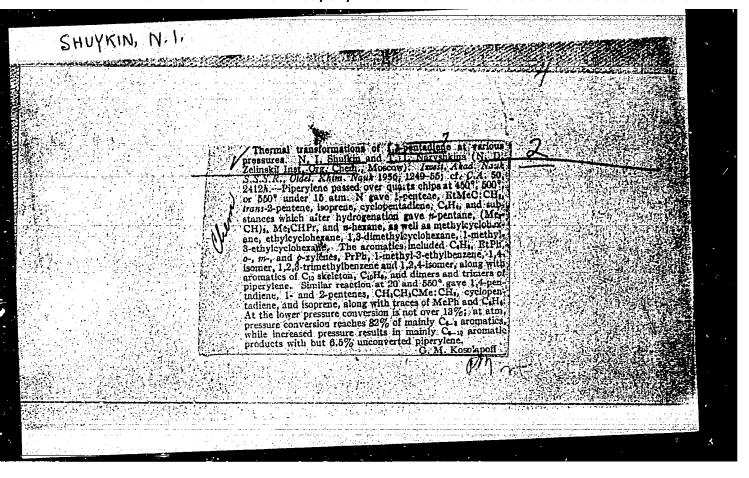


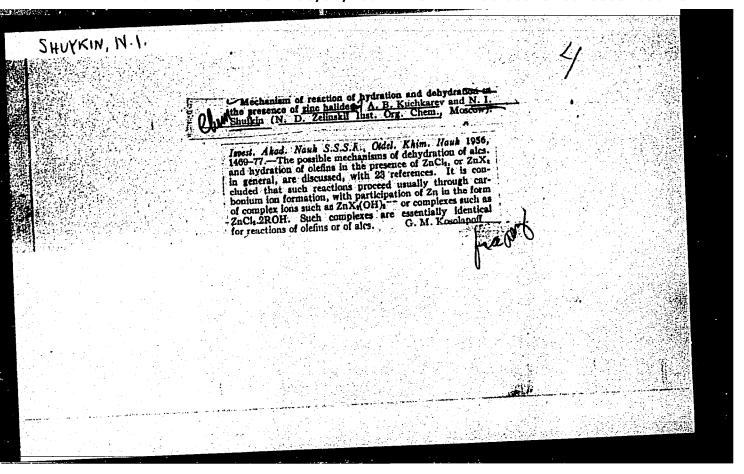












PETROV. A.D.; SHUYKIN, N.I.

A month spent among the chemists of France. Chim.nauka i prom. 1 no.5:583-588 '56. (MLRA 9:12)

1. Chlen-korrespondenty Akademii nauk SSSR. (France--Chemistry, Industrial)

SHUYKIN, N.I.; TULLIPOV, V.A.

Pessible formation of cyclopentadiene from heterocyclic compounds with five carbon atoms in a molecule. Izv.AN SSSR Otd.khim.mauk no.2:213-219 F *56.

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lemenesova. (Cyclopentadiene)

SHUYKIN, N.I.; TULUPOVA, Ye.D.

Contact-catalytic refining of the Tuimazy gasoline. Izv.AH SSSR Otd.
(MIRA 9:7)
khim.nauk ne.2:220-225 P *56.

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nsuk SSSR.

(Tuimazy--Gasoline)

SHUYISIN, N. I.

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

Catalysis

: Referat Zhur - Khimiya, No 4, 1957, 11293 Abs Jour

Author

: Shuykin N.I., Tulupov V.A. : Moscow University

Inst

Title

: On Catalytic Hydrogenation of Pyridine

Orig Pub : Vestn. Mosk. un-ta, 1956, No 3, 73-79

Abstract: A study was made of hydrogenation of pyridine under flow conditions at space velocity 0.1 hour on skeleton Mi-catalyst (preperse from an alloy 73% Al + 27% Ni), having an excess H2. It is shown that besides piperidine there are formed 1-aminopentane, pyrrole, alpha-, beta- and gamapicoline and alpha- aminopyridine. There is proposed a mechanism of formation of the reaction by-products over the groups CH2, CH3, NH2, C5H4NT and

H atoms.

1/1

CIA-RDP86-00513R001550320002-3 "APPROVED FOR RELEASE: 08/31/2001

SHUYKIN, N.I.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khiriya, No 19, 1956, 61424

Author: Minachev, Kh. M., Shuykin, N. I., Feofanova, L. M., Yegorov, Yu. P.

Institution: None

Title: Conversions of n-Decane in the Presence of Platinized Alumina at

Elevated Temperature and Hydrogen Pressure

Periodical: Izv. AN SSSR, Otd. khim. n., 1956, No 3, 352-357

Abstract: Investigated were contact-catalytic conversions of n-C10H22 in flow system over platinized alumina (Referat Zhur - Khimiya, 1956,

12800) at elevated temperature and H2 pressure. n-C10H22 (BP 174.11°) prepared by Grignard reaction by action of C3H7CHO on C6H13 or, and subsequent dehydration of the formed sec-C10H21OH over Al203 at 3200 and hydrogenation of the reaction product in . vapor phase in presence of 1% Pt/C at 210° and rermal pressure. n-C10H22 was brought in contact with catalyst at mapace velocity 1.1 hour-1, and molal ratio H2:n C10H22 = 5:1, H2 pressure 30-50 atm

Card 1/2

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61424

Abstract: and temperature 460°. Catalyzates are characterized by n²⁰D and $d_{\rm I}^{20}$ and content in aromatic hydrocarbons which were separated by adsorption on silica gel. n-alkanes were separated from iso-alkanes by means of urea. Products of catalysis were subjected to spectral analysis in IKS-11 spectrometer (slit 0.2 mm, concentration of hydrocarbon in CCl4 1:50 by volume). It was found that greatest changes on increase in number of CH3-groups are observed at peaks 3.51, 3.42 and 3.38 μ . With increasing branching of hydrocarbon the first 2 peaks decrease and the third increases. From the magnitude of ratios 3.51:3.38 and 3.42:3.38 an opinion was formed of the extent of branching of the hydrocarbon. It was found that under the described conditions n-CloH22 undergoes a series of extensive conversions as a result of which are formed aromatic hydrocarbons 5 and 6-membered cyclanes and mono- and disubstituted isoalkanes C_7 - C_{10} . The content of monosubstituted decanes in the total mass of isodecanes is 70%.

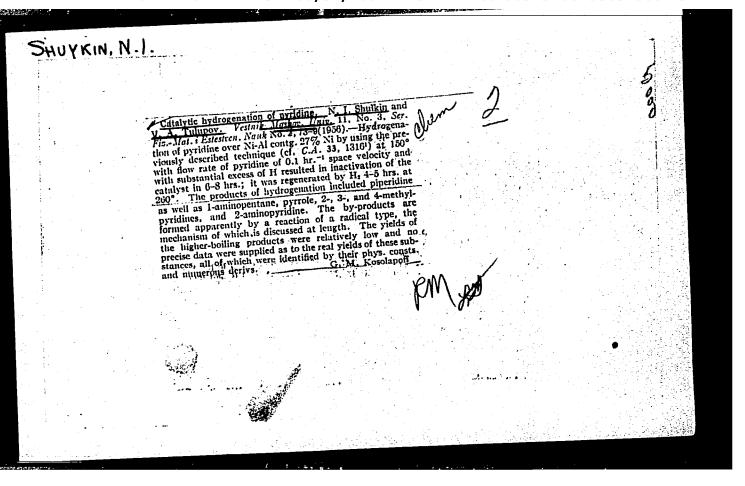
Card 2/2

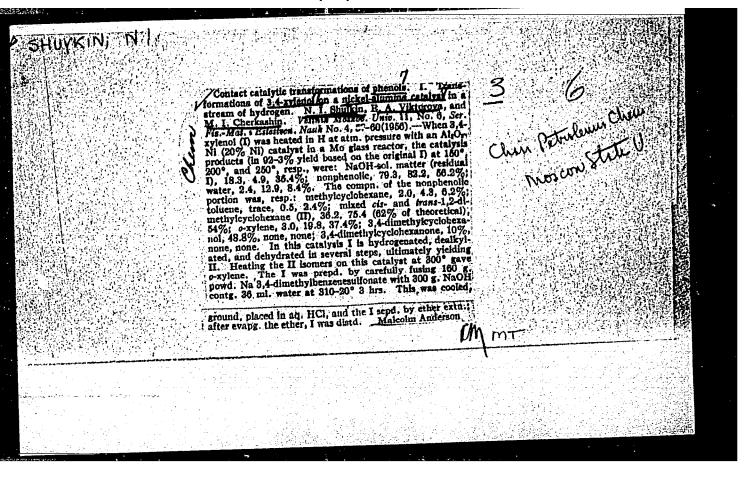
SHUYKIN, N.I.; BEL'SKIY, I.F.

Disclosure of the tetrahydrofuran cycle with aluminum halides. Izv.AN SSSR.Otd.khim.mauk ne.6:747-748 Je '56. (MIRA 9:9)

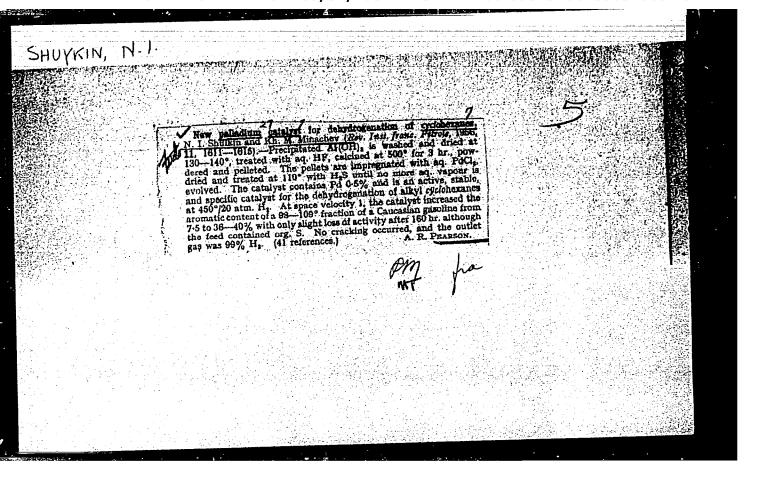
1. Institut erganicheskey khimii imeni N.D. Zelinskege Akademii nauk SSSR.

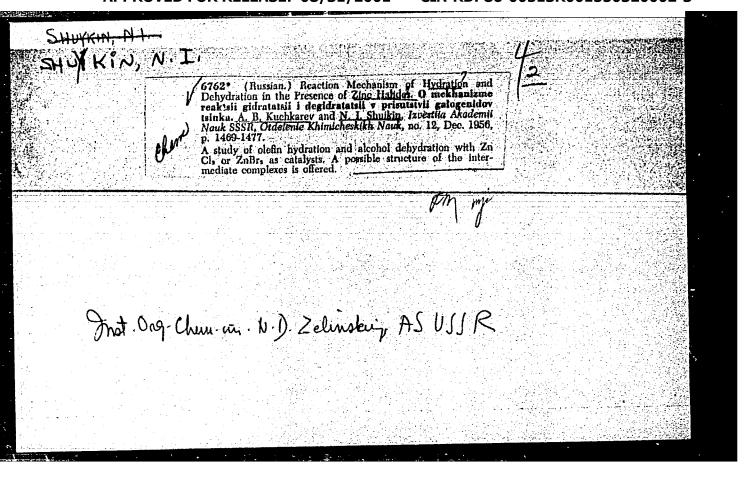
(Furan) (Aluminum halides)





SHUYKINI, N.I.		
The state of the s		
Catalytic dehydrogenation of 2-methylbutane. N.		
Shukin, I. P. Louiyami, frong. pitrole et Ann. combustion	63 Or	
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H 2 hrs. at 527-30° prior to reuse. During period the yield of catalyzate (IV) was 88-8% and its coperiod the yield of catalyzate (IV) was 88-8% and its coperiod the yield of catalyzate (IV) was 88-8% and its coperiod the yield was 88-8% and its coperiod the yield	-2- /85	
butene Isomer predominating. Also found in unreacted I and small amits, of 1-pentene, 2-pentene, tolur unreacted I and small amits, of 1-pentene, 2-pentene, tolur unreacted I and, probably, pentane. The av. yield of III was 37.8 and, probably, pentane. The av. yield of III was 37.8 and, probably, pentane.	ne, 3%	
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SHELLYL IN, A. J. BEL'CHEV, F.V.; SHUYKIN, N.I.

Catalytic synthesis of n-butylamine on mixed oxide catalysts. Zhur. (MLRA 10:11) ob. khim. 26 no.8:2218-2223 Ag 156.

1. Belorusskaya sel'skokhosyaystvennaya akademiya i Institut organicheskoy khimii AN SSSR.

(Butylamine)

Visiting French chemists. Vest. AN SSSR 26 no.10:55-60 0 '56. (MLRA 9:11)

1. Chlen-korrespondenty Akademii nauk SSSR. (France--Chemical industries)

